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1 [Link and channel measurement: A simple mechanism for capturing and replaying wireless](#)

Glenn Judd, Peter Steenkiste

August 2005 **Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approach design and analysis E-WIND '05**

Publisher: ACM Press

Full text available: pdf(6.06 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Physical layer wireless network emulation has the potential to be a powerful experimental tool. physical emulation, and traditional simulation, is to accurately model the wireless channel. In the possibility of using on-card signal strength measurements to capture wireless channel traces. A approach is the simplicity and ubiquity with which these measurements can be obtained since v provide the req ...

Keywords: channel capture, emulation, wireless

2 [Bid expressiveness and clearing algorithms in multiattribute double auctions](#)

Yagil Engel, Michael P. Wellman, Kevin M. Lochner

June 2006 **Proceedings of the 7th ACM conference on Electronic commerce EC '06**

Publisher: ACM Press

Full text available: pdf(194.81 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We investigate the space of two-sided multiattribute auctions, focusing on the relationship between traders can express through bids, and the resulting computational problem of determining an optimal develop a formal semantic framework for characterizing expressible offers, and show conditions problem can be separated into first identifying optimal pairwise trades and subsequently optimizing trades. We a ...

Keywords: auctions, multiattribute auctions

3 [The state of the art in distributed query processing](#)

Donald Kossmann

December 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 4

Publisher: ACM Press

Full text available: pdf(455.39 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Distributed data processing is becoming a reality. Businesses want to do it for many reasons, and

order to stay competitive. While much of the infrastructure for distributed data processing is already in place (e.g., network technology), a number of issues make distributed data processing still a complex undertaking. These issues can become very large, involving thousands of heterogeneous sites including PCs and servers. (2) the state of the art ...

Keywords: caching, client-server databases, database application systems, dissemination-based economic models for query processing, middleware, multitier architectures, query execution, query wrappers

4 Auctions and E-commerce: A probabilistic approach to automated bidding in alternative auction mechanisms



Marlon Dumas, Lachlan Aldred, Guido Governatori, Arthur ter Hofstede, Nick Russell
May 2002 **Proceedings of the 11th international conference on World Wide Web**

Publisher: ACM Press

Full text available: pdf(233.70 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an approach to develop bidding agents that participate in multiple alternative auctions, obtaining an item at the lowest price. The approach consists of a prediction method and a planning method. The prediction method exploits the history of past auctions in order to build probability functions capturing the price that may win a given auction. The planning algorithm computes the lowest price, such that by bidding this price, the agent can win the auction.

5 Columns: Risks to the public in computers and related systems



Peter G. Neumann
January 2001 **ACM SIGSOFT Software Engineering Notes**, Volume 26 Issue 1

Publisher: ACM Press

Full text available: pdf(3.24 MB)

Additional Information: [full citation](#)

6 Virtual extension: When snipers become predators: can mechanism design save online auctions?



Ravi Bapna
December 2003 **Communications of the ACM**, Volume 46 Issue 12

Publisher: ACM Press

Full text available: pdf(470.71 KB) html(27.53 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)

7 Privacy preserving auctions and mechanism design



Moni Naor, Benny Pinkas, Reuban Sumner
November 1999 **Proceedings of the 1st ACM conference on Electronic commerce**

Publisher: ACM Press

Full text available: pdf(278.36 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 An Internet-based negotiation server for e-commerce

Stanley Y.W. Su, Chunbo Huang, Joachim Hammer, Yihua Huang, Haifei Li, Liu Wang, Youzhong Li, Pluempitiwiriawej, Minsoo Lee, Herman Lam
August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(355.19 KB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper describes the design and implementation of a replicable, Internet-based negotiation server. The server supports bargaining-type negotiations between enterprises involved in e-commerce and e-business. Enterprises can negotiate the purchase and sale of goods and services, as well as the negotiation of business terms.

sellers of products/services or participants of a complex supply chain engaged in purchasing, pl. Multiple copies of our server can be installed to complement the services of Web servers. Each select a trusted negotia ...

Keywords: Constraint evaluation, Cost- benefit analysis, Database, E-commerce, Negotiation p Negotiation protocol

9 Coalition formation: Coalition formation in proportionally fair divisible auctions



Rajiv T. Maheswaran, Tamer Baçar

July 2003

Proceedings of the second international joint conference on Autonomous ag systems

Publisher: ACM Press

Full text available: pdf(469.78 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index ter](#)

One method for agents to improve their performance is to form coalitions with other agents. Or occur is because different agents could have been created by the same owner so an incentive to Competing agents can also choose to coordinate their actions when there is a mutually beneficial effects of cooperation depend on the structure of the game being played. In this paper, we stud divisible auction ...

Keywords: coalition formation, divisible auctions, e-commerce, game theory, market mechanism resource allocation, software agents

10 Auction based resource negotiation in NOMAD

Kris Bubendorfer, John H. Hine

January 2005

Proceedings of the Twenty-eighth Australasian conference on Computer Sci '05

Publisher: Australian Computer Society, Inc.

Full text available: pdf(288.05 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

The challenges faced by mobile and distributed applications include the ability to discover and n required for execution. The NOMAD (Negotiated Object Mobility, Access and Deployment) system that provides an infrastructure to support applications constructed of mobile code. This paper d mechanisms for resource discovery and negotiation. NOMAD features a Marketplace providing a resource requirements lead ...

Keywords: computational economy, market negotiation, mobility, resource allocation, resource

11 A taxonomy of Data Grids for distributed data sharing, management, and processing



Srikumar Venugopal, Rajkumar Buyya, Kotagiri Ramamohanarao

June 2006

ACM Computing Surveys (CSUR), Volume 38 Issue 1

Publisher: ACM Press



Full text available: pdf(1.70 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index ter](#)

Data Grids have been adopted as the next generation platform by many scientific communities transport, process, and manage large data collections distributed worldwide. They combine high with high-performance networking and wide-area storage management techniques. In this artic concepts behind Data Grids and compare them with other data sharing and distribution paradigm networks, peer-to-peer n ...

Keywords: Grid computing, data-intensive applications, replica management, virtual organizat

12 A market architecture for multi-agent contracting

-  John Collins, Ben Youngdahl, Scott Jamison, Bamshad Mobasher, Maria Gini
May 1998 **Proceedings of the second international conference on Autonomous agents**
Publisher: ACM Press
Full text available:  [pdf\(1.10 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



13 Developing a bidding agent for multiple heterogeneous auctions

-  Patricia Anthony, Nicholas R. Jennings
August 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 3
Publisher: ACM Press
Full text available:  [pdf\(1.15 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Due to the proliferation of online auctions, there is an increasing need to monitor and bid in multiple auctions to procure the best deal for the desired good. To this end, this paper reports on the development of a framework that an autonomous agent can exploit to tackle the problem of bidding across multiple auctions and end times and with varying protocols (including English, Dutch and Vickrey). The framework and ...



Keywords: bidding strategy, genetic algorithms, multiple auctions

14 Workshop on mobile computing systems and applications, December 1994: digest of proceedings

-  M. Satyanarayanan
April 1995 **ACM SIGOPS Operating Systems Review**, Volume 29 Issue 2
Publisher: ACM Press
Full text available:  [pdf\(928.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The goal of this two-day meeting was to foster interaction between active workers in mobile computing and cross-fertilization of ideas. Given the youth of the field, such interactions could have substantial impact on the direction. In keeping with this goal, the conference organizers chose to have a small, informal and more formal conference. The workshop was sponsored by the IEEE Computer Society Technical Committee on Systems, in collaboration with the ACM SIGOPS.



15 Markets: Addressing strategic behavior in a deployed microeconomic resource allocator

-  Chaki Ng, Philip Buonadonna, Brent N. Chun, Alex C. Snoeren, Amin Vahdat
August 2005 **Proceeding of the 2005 ACM SIGCOMM workshop on Economics of peer-to-peer systems**
Publisher: ACM Press
Full text available:  [pdf\(205.57 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

While market-based systems have long been proposed as solutions for distributed resource allocation, they have not been widely deployed for production use in real computer systems. Towards this end, we present our initial microeconomic resource allocation system based on a repeated combinatorial auction. Mirage was deployed on a 148-node wireless sensor network testbed. In particular, we focus on observed strategic behavior in a one-month period in which 312 ...

Keywords: market-based systems, resource allocation, strategic behavior

16 Accelerating information revelation in ascending-bid auctions: avoiding last minute bidding

-  Shigeo Matsubara
October 2001 **Proceedings of the 3rd ACM conference on Electronic Commerce**
Publisher: ACM Press
Full text available:  [pdf\(171.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An ascending-bid auction protocol with a fixed end time has been widely used at many Internet auctions.

we can observe bidders engaging in the behavior called last minute bidding, namely, a large fraction of bidders are submitted in the closing seconds of the auction. This can cause problems such as information asymmetry as server overload and network congestion. When bidders behave in this way, each of them can cause the go ...

Keywords: auction, information revelation, last minute bidding, multi-agent systems


17 Market-based resource control for mobile agents

 Jonathan Bredin, David Kotz, Daniela Rus
May 1998 **Proceedings of the second international conference on Autonomous agents**

Publisher: ACM Press

Full text available:  [pdf\(1.11 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

18 Trading agents: Walverine: a Walrasian trading agent

 Shih-Fen Cheng, Evan Leung, Kevin M. Lochner, Kevin O'Malley, Daniel M. Reeves, L. Julian Schwalbe
July 2003 **Proceedings of the second international joint conference on Autonomous agents and artificial intelligence systems**

Publisher: ACM Press

Full text available:  [pdf\(151.73 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

TAC-02 was the third in a series of Trading Agent Competition events fostering research in automated trading. TAC presents a challenging market game where agents must satisfy client preferences for complementary and substitutable goods by interacting in a market with multiple market types. Michigan's entry, Walverine, attempts to bid optimally based on a competitive equilibrium economy. Walverine ...

Keywords: competitive equilibrium, trading agents

19 The sequential auction problem on eBay: an empirical analysis and a solution

 Adam I. Juda, David C. Parkes
June 2006 **Proceedings of the 7th ACM conference on Electronic commerce EC '06**

Publisher: ACM Press

Full text available:  [pdf\(267.79 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bidders on eBay have no dominant bidding strategy when faced with multiple auctions each offering a different good. Seen through an analysis of 1,956 auctions on eBay for a Dell E193FP LCD monitor, some bidders win auctions with higher prices than those of other available auctions, while others never win an auction despite placing higher bids than the closing prices of other available auctions. These misallocations in strategic bidding behavior are the result of ...

Keywords: eBay, online auctions, options, proxy bidding, sequential auction problem

20 An agent oriented business model for e-commerce based on the NYSE specialist system

 Kenneth Griggs
April 2000 **Proceedings of the 2000 ACM SIGCPR conference on Computer personnel and communications**

Publisher: ACM Press

Full text available:  [pdf\(507.08 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The rapid development of commerce on the World Wide Web has been accompanied by the creation of new and customer relationships involving the use of intelligent software agents. Agents are characterized by their ability to perceive, and intelligence and have been used primarily for search and data mining activities

in electronic commerce is the development of auction markets in contrast to traditional fixed po
based auction market ...

Keywords: agents, auction markets, electronic commerce

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IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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- ☐ 1. **A framework for computing the outcome of proxied combinatorial auction**
 Jie Zhong; Wurman, P.R.;
E-Commerce Technology, 2005. CEC 2005. Seventh IEEE International Conference on
 19-22 July 2005 Page(s):25 - 32
 Digital Object Identifier 10.1109/ICECT.2005.3
[AbstractPlus](#) | Full Text: [PDF](#)(544 KB) IEEE CNF
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- ☐ 2. **A mathematical model for analyzing the proxy bidding method for mobile auction services**
 Jie Zhang; Chan, H.C.B.;
Advanced Information Networking and Applications, 2004. AINA 2004. 18th International Conference on
 Volume 1, 2004 Page(s):518 - 523 Vol.1
 Digital Object Identifier 10.1109/AINA.2004.1283962
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